

Title (en)

Hydraulic shock absorber for a motor vehicle

Title (de)

Hydraulischer Schwingungsdämpfer für Kraftfahrzeuge

Title (fr)

Amortisseur hydraulique pour véhicule automobile

Publication

EP 0535409 B1 19960207 (DE)

Application

EP 92115324 A 19920908

Priority

- DE 4132734 A 19911001
- DE 4135576 A 19911029
- DE 4207099 A 19920306

Abstract (en)

[origin: EP0535409A1] The invention relates to a hydraulic vibration damper with a damping cylinder containing damping fluid, a piston rod (2) carrying a damping piston and performing a reciprocating movement in this cylinder and a guide closure arranged on the end pierced by the piston rod. The guide closure comprises a cylindrical guide part 3, an oil seal 4 coming in contact with the piston rod and a support and spacer unit 5 composed of parts formed from sheet metal. The guide closure comprising annular parts introduces a low mass into the vibration damper and can easily be fitted in the vibration damper since it can be prefabricated as a complete sub-assembly with guide part and oil seal. <IMAGE>

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B60G 15/07; **F16F 9/36**

IPC 8 full level

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CPC (source: EP)

F16F 9/363 (2013.01)

Cited by

DE4345116A1; DE4311101B4; US5579876A; US6659243B2; FR2695973A1; DE4311100B4; EP0771965A1; FR2740845A1; DE19781693B4; JP2017032079A; DE10151023C1; FR2778218A1; FR2781853A1; EP0637702A1; FR2708692A1; DE102019215208A1; GB2279424A; US5477949A; GB2279424B; US6253661B1; US10330170B2; FR2765646A1; DE19821201A1; BE1012441A4; ES2155751A1; DE19821201B4; EP0733823A1; US2017350464A1; EP3214337A4; WO9717555A1

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